

**In The Claims:**

Claim 1. (currently amended) A method of forming bit lines and bit line contacts of a memory device, comprising the steps of:

providing a substrate having a plurality of gate structures thereon, wherein each gate structure comprises a gate dielectric layer, a gate conductive layer and a cap layer, and wherein a spacer is formed on each sidewall of the gate structure;

forming a conductive layer over the substrate to cover the gate structures;

planarizing the conductive layer until the cap layer of the gate structures is exposed;

removing a portion of the conductive layer but retaining the conductive layer between neighboring gate structures to form a bit line contact;

forming a dielectric layer over the substrate to cover the gate structures and the bit line contact;

planarizing the dielectric layer until the cap layer of the gate structures and the bit line contact are ~~is~~ exposed; ~~and~~

forming a stop layer over the dielectric layer such that the bit line contact remains exposed; and

forming a bit line over the ~~dielectric~~ stop layer, wherein the bit line and the bit line contact are electrically connected.

Claim 2. (currently canceled)

Claim 3. (original) The method of claim 1, wherein before forming the conductive layer over the substrate, further comprises:

forming a barrier layer over the substrate and the gate structures; and

removing the barrier layer between two neighboring gate structures to expose the substrate.

Claim 4. (original) The method of claim 1, wherein the step of forming the bit line over the dielectric layer comprises:

forming a first dielectric layer over the dielectric layer;

forming a trench in the first dielectric layer such that the trench exposes the bit line contact; and

depositing conductive material into the trench to form the bit line.

Claim 5. (original) The method of claim 1, wherein the step of planarizing the conductive layer comprises performing a chemical mechanical polishing operation.

Claim 6. (original) The method of claim 1, wherein the step of planarizing the dielectric layer comprises performing a chemical mechanical polishing operation.

Claim 7. (original) The method of claim 1, wherein a width of the bit line contact is substantially identical to a width of the bit line.

Claim 8. (original) The method of claim 1, wherein material constituting the bit line contact comprises doped polysilicon.

Claim 9. (original) The method of claim 1, wherein material constituting the bit line comprises tungsten.

Claim 10. (currently amended) A method of forming a memory device, comprising the steps of:

providing a substrate comprising a memory cell region and a peripheral circuit region;

forming a plurality of gate structures over the substrate within the memory cell region, wherein each gate structure comprises a gate dielectric layer, a gate conductive layer and a cap layer, and wherein a spacer is formed on each sidewall of the gate structures;

forming a conductive layer over the substrate to cover the gate structures;

planarizing the conductive layer until the cap layer of the gate structures is exposed;

removing a portion of the conductive layer but retaining the conductive layer between two neighboring gate structures to form a bit line contact;

forming a dielectric layer over the substrate to cover the gate structures and the bit line contact;

planarizing the dielectric layer until the cap layer of the gate structures and the bit line contact ~~are~~is exposed; ~~and~~

forming a stop layer over the dielectric layer such that the stop layer exposes the bit line contact; and

forming a bit line over the ~~dielectric~~ stop layer so that a contact is also formed within the dielectric layer in the peripheral circuit region, wherein the bit line is electrically connected to both the bit line contact and the contact.

Claim 11. (currently canceled)

Claim 12. (original) The method of claim 10, wherein before the step of forming the conductive layer over the substrate, further comprises:

forming a barrier layer over the substrate and the gate structures; and

removing the barrier layer between two neighboring gate structures to expose the substrate.

Claim 13. (original) The method of claim 10, wherein the step of planarizing the conductive layer comprises performing a chemical mechanical polishing operation.

Claim 14. (original) The method of claim 10, wherein the step of planarizing the dielectric layer comprises performing a chemical mechanical polishing operation.

Claim 15. (original) The method of claim 10, wherein the bit line contact has a width almost identical to the bit line.

Claim 16. (original) The method of claim 10, wherein the step for forming the bit line and the contact comprises:

forming a first dielectric layer over the substrate to cover the dielectric layer, the bit line contact and the gate structures;

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Docket No.: 10587-US-PA

forming a trench in the first dielectric layer such that the trench exposes the bit line contact;

forming an opening in the dielectric layer at the bottom of the trench within the peripheral circuit region, wherein the opening exposes the substrate; and  
depositing conductive material into the trench and the opening to form a bit line and a contact.

Claim 17. (original) The method of claim 10, wherein material constituting the bit line contact comprises doped polysilicon.

Claim 18. (original) The method of claim 10, wherein material constituting the bit line comprises tungsten.